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InterPro: DNA mismatch repair protein



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P. 024

Pags 2 of 2

InterPro: DNA mismatch repair protein

P54279	PMS2_MOUSE Mouse proetin PSM2	
1		<u>' 1</u>
The state of the s		•
P14161	MUTL_SALTY mutL bacterial protein	
in an included by the property		
P14160	HEXB STRPN Streptococcus prisumonias hexB protein	
1 1 11V (c.11, 123, 123)		
The state of the last of the l		
P40692	MLH1 HUMAN Human protein MLH1	
Reserved to the second		Ĺ

More proteins...

IPR002099 DNA mismatch repair protein
IPR003594 ATP-binding region, ATPase-like
SuperFamily

## **Publications**

1. Modrich P.

DNA mismatch correction.

Annu. Rev. Biochem. 56: 435- 466 (1987) [PubMed: 3304141]

2. McIntyre C.A., Mankovich J.A., Walker G.C.

Nucleotide sequence of the Salmonella typhimurlum mutL gene required for mismatch repair: homology of MutL to HexB of Streptococcus pneumoniae and to PMS1 of the yeast Saccharomyces cerevisiae.

- J. Bacteriol. 171: 5325- 5331 (1989) [PubMed: 2676972]
- 3. Prudhomme M., Claverys J.-P., Mejean V., Martin B.

Nucleotide sequence of the Streptococcus pneumoniae hexB mismatch repair gene: homology of HexB to MutL of Salmonella typhimurium and to PMS1 of Saccharomyces cerevisiae.

- J. Bacteriol. 171: 5332- 6338 (1989) [PubMed: 2676973]
- Bronner C.E., Godwin A.R., Tannergard P., Linblom A., Bollag R.J., Lipford J., Warren G., Earibino C., Karle M., 4. Lescoe M.K., Kolodner R.D., Smith L.G., Fishel R., Morrison P.T., Baker S.M., Nordenskjold M., Liskay R.M., Ward D.C.

Mutation in the DNA mismatch repair gene homologue hMLH1 is associated with hereditary non-polyposis color-cancer.

Nature 368: 258- 261 (1994) [PubMed: 8145827.]

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InterProScan



Get Nucleotide sequences 🐮 for

Page 1 of 2

SHS SHE ? Site search

TOTAL

INTERPRO DATABASE

<u>.</u>

InterProScan Results

SEQUENCE: Sequence 1 CRC64: 245289C333C7D8AA LENGTH: 724 aa DNA mismatch repair protein DNA mismatch repair protein, C-termina TIGR00585 PS00058 FF01119

TIGREAMS

PFAM

<sup>2</sup>R002099

Family

InterPro

PROSITE no parent

InterProScan Help

References

no children

Children

Parent

no entries IPR003594

Found in

2.1e-39 [231-348]T 1e-118 [16-328]T

NA [108-114]?

mutt: DNA mismatch repair protein Mutt. DNA MISMATCH REPAIR

PACE 25/30 \* RCVD AT 3/22/2004 6:14:00 PM [Eastern Standard Time] \* SVR:USPTO-EFXRF-1/2 \* DNIS:8729306 \* CSID:9198622260 \* DURATION (mm-55):14-36

0.00018 (33-167)T

Histidine kinase-, DNA gyrase B-, and

Biological Process: mismatch repair (GO:0006298)

GO terms Contains

ATP-binding region, ATPase-like

Histidine kinase-like ATPases

SM00387

SMART

E E

PFAM

PR003594

Jomain

merPro

0.0052 [33-153]T

PR001241 IPR001404 IPR002099 IPR005467 IPR005734 IPR006290 IPR008358 IPR010193 no entries

PR004358 IPR010194

Children

Found in Contains

no parent

Parent

Molecular Function: ATP binding (GO:0005524)

GO terms

RolpR

unintegrated unintegrated

**AMPLITURA** 

e-104 [27-208]

4444 Hausa shi sa ukha di hinfirmen sufirmen su Phad zimen su Siahid zimen su 1004 111 2046 Mand zahan ben su Tahla

b' 052

LET: 0108655560

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General Help

**€** Formats ₹ Gaps • Matrix

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	PRODOM		C8S2D3_EFFFF_C8S2D3	<b>-</b>
1	РКОВОМ	PD:002741	Q8S2D3_EEFEE_Q8S2D3	3e-36 (274- 346 T
	PRODOM	PD018003	Q8S2D3_EFEEE_Q8S2D3	e-153 [347- 625]T
	РКОВОМ	PD393849	QBS2D3_EFFFE_QBS2D3	2e-35 [626- 713]T
<u></u> -	PRODOM	PD541161	Q9BIX4_EEEEE_Q9BIX4	2e-11 [209- 214]T
	PRODOM	PD673298	Q8S2D3_EEEEE_Q8S2D3	6e-26 [215- 273]T
	RIG TIG	PIRSF006464 no name	по пате	0 [1-724]T
	SUPERFAMILY SSF54211	SSF54211	Ribosomal protein S5 domain 2-like	7.7e-34 [225- 349IT
	SUPERFAMILY SSF55874	SSF55874	ATPase domain of HSP90 chaperone/DNA topoisomerase Whistidine kinase	5.2e-34 [14- 224]T
Parent	no parent			
Children	no children			
Found in	no entries			
Confains	no entries			
GO terms	none			
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